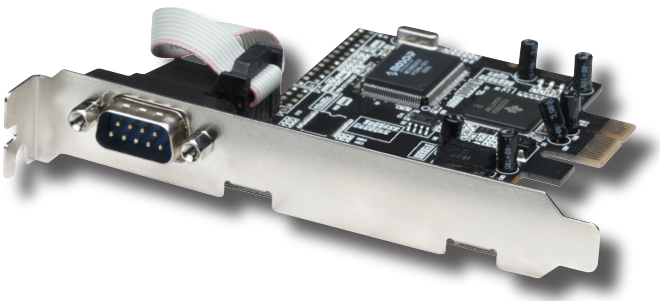
# SERIAL PCI EXPRESS CARD
# USER MANUAL
## MODEL 160414



MANHATTAN

MAN-160414-UM-1106-04

Thank you for purchasing the MANHATTAN® Serial PCI Express Card, Model 160414. Compliant with PCI Express 1.0a specifications, this card can be configured to achieve baud rates of up to 115,200 bps and takes advantage of PCI Express data transfer speeds of up to 2.5 Gbps.

## HARDWARE INSTALLATION

1. Turn off the power to the computer system.
2. Unplug the power cord and remove your computer's cover.
3. Remove the slot bracket from an available PCIe slot.
4. To install the card, carefully align the card's bus connector with the selected PCIe slot on the motherboard. Push the board down firmly.
5. Connect the system power source to the board's power connector.
6. Replace the slot bracket's holding screw to secure the card.
7. Replace the computer cover and reconnect the power cord.

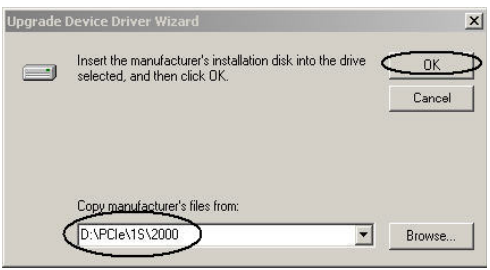
## DRIVER INSTALLATION

*NOTE:* Make sure the board is installed before proceeding with driver installation.

## For Windows 2000

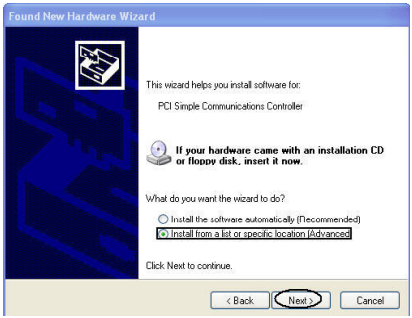
1. On the Found New Hardware Wizard screen, click "Next."
2. Select "Search for a suitable driver for my device (recommended)," and click "Next."
3. Check "Specify a location," uncheck the other boxes, then click "Next."
4. Insert the driver CD, enter "D:\PCIe\1S\2000" in the "Copy manufacturer's files from" field, then click "OK." (If needed, change "D:" to match your CD-ROM drive designation.)
5. Click "Next," then "Finish."
6. Restart Windows to complete the installation.

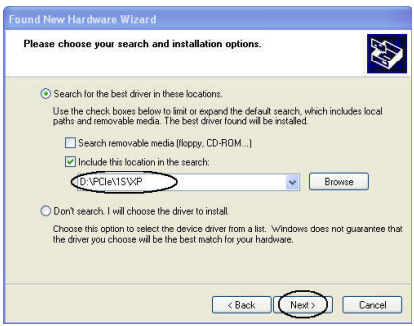
Found New Hardware Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device:
PCI Simple Communications Controller
A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel



## For Windows XP

1. On the Found New Hardware Wizard screen, select "Install from a list or specific location (Advanced)," then click "Next."
2. Insert the driver CD, check "Include this location in the search" and enter "D:\PCIe\1S\XP" in the blank field, uncheck the other box, then click "OK." (If needed, change "D:" to match your CD-ROM drive designation.)
3. If the Hardware Installation window pops up, click "Continue Anyway," then click "Finish." The driver has been thoroughly tested for stability and compatibility.
4. Repeat steps 1-3 one more time.
5. Restart Windows to complete the installation.


Found New Hardware Wizard
This wizard helps you install software for:
PCI Simple Communications Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\PCIe\1S\XP
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel



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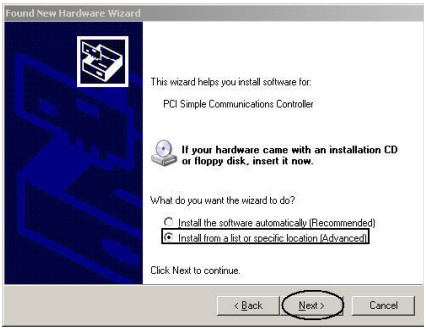
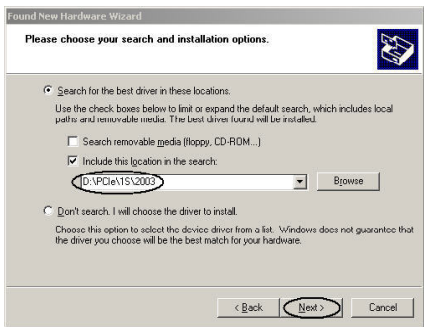
## For Windows Server 2003

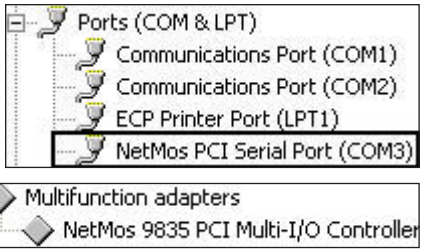
1. On the Found New Hardware Wizard screen, select "Install from a list or specific location (Advanced)," then click "Next."
2. Insert the driver CD, check "Include this location in the search" and enter "D:\PCIe\1S\2003" in the blank field, uncheck the other box, then click "OK." (If needed, change "D:" to match your CD-ROM drive designation.)
3. If the Hardware Installation window pops up, click "Continue Anyway," then click "Finish." The driver has been thoroughly tested for stability and compatibility.
4. Repeat steps 1-3 one more time.
5. Restart Windows to complete the installation.


Found New Hardware Wizard
This wizard helps you install software for:
PCI Simple Communications Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\PCIe\1S\2003
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

## Verifying Windows 2000/XP/Server 2003 Installation

1. Right click on "My Computer," then click "Manage." Click on "Device Manager."
2. Click on "+" (plus sign) in front of "Ports (COM & LPT)." A single "NetMos PCI Serial Port ..." option should be displayed.
3. Double-click on "Multifunction adapters." "NetMos 9835 PCI Multi-I/O Controller" should be displayed.




## Changing the COM Port Address

Some serial devices need a specific COM port in order to work. If your device works properly, don't change this setting. Otherwise, follow these steps for Windows 2000/XP/Server 2003.

1. From the Device Manager window, double-click "Ports (COM & LPT)," then double-click the "NetMos PCI Serial Port" you want to change.
2. Click on the Settings tab and click "Advanced."
3. Click the down arrow that is next to the "COM Port Number" box; select a COM port that is not in use, then click "OK."
4. Click "OK," then close Device Manager to save the changes.

# SPECIFICATIONS

## Port Specifications

- One DB9 male port
- Programmable baud rate of up to (115,200 bps)
- MosChip serial controller
- Single 3.3 V operation
- 16-byte transmit/receive FIFO
- Even, odd, no parity or force parity options
- 5-, 6-, 7- and 8-bit characters selection
- Compatible with 16C550
- Legacy PCI addressing support

## Bus Specifications

- PCI Express x1
- Texas Instruments chipset
- Bus speed: 2.5 Gbps
- Fully compliant to PCI Express specifications 1.0a

## System Requirements

- Windows 2000/XP/Server 2003/Vista
- PCI Express-enabled system with an available PCI Express slot
- CD-ROM drive

## Package Contents

- Serial PCI Express Card, x1 lane
- User manual and driver CD

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Are you completely satisfied with this product?
Please contact your MANHATTAN® dealer with comments or questions.

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